Sanding Waste Management

Sanding Waste
Environmental & Health Concerns

- Hazardous waste
  - May contain heavy metals
    - Restoration shops - lead, cadmium, chromium, zinc
    - Shops working on newer cars
      - Newer paints contain less toxic materials, except zinc-based primers
      - Sanding zinc primers may generate non-RCRA waste
      - May be able to test or show non-hazardous
- Storm water
  - Waste tracked outside
  - Sweeping or washing to parking lot, gutters, streets, storm drains
- Worker Health and Safety
  - Dust particles in the air during sanding
  - Take home hazard –dust carried on clothing and footwear

Block Sanding
Dust Control

Best practices

- Sand in designated area
- Clean up after each task
- Wear PPE
  - Respirator, tyvek or coveralls

Sanding body filler

- Choose non-hazardous product
- Separate from primer sanding waste, usually hazardous

Sanding and Priming Area

Sand in designated area to control waste

Wet sanding

Best Practices:

- Squirt bottle
  - Minimizes water use
- Collect wet sanding waste
  - Clarifier
    - Ensure adequate capacity and design
    - Inspect routinely and remove waste
  - Drip pans

Container cost = $75.00 each

Vacuum Sanding

- Central Vacuum System
  - Works well for large shops
  - Consider work station placement
- Tools and sandpaper for most needs
- Clean shop, clean paint jobs
- Allows worker to see surface clearly
- Dust removal from surface pores- brush attachments

Portable Vacuum Systems

- Portable vacuum sanding units
  - May use for dedicated hazardous sanding waste collection
  - 1or 2 users
  - HEPA filtration system
  - $1500-$4000
- Shop-vac with HEPA filter
  - Clean-up after block sanding tasks
  - Least expensive

Why Vacuum Sanding?

- Increase production
- Save labor and material costs
  - Cleaner paint jobs
  - Reduces:
    - Surface cleaning
    - Sandpaper use
    - Need to re-work
- Maintain environmental compliance
  - Hazardous waste management and disposal
  - Storm water quality
- Worker health & safety
  - Reduces airborne contaminants